CLAIMS

What is claimed is:

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- 1. A method for detecting a target nucleic acid in a sample, comprising the step of amplifying the target nucleic acid using a polymerase chain reaction, wherein said polymerase chain reaction is carried out in the presence of an effective amount of at least one anti-foam reagent that does not substantially inhibit the action of the polymerase.
- 2. The method according to claim 1, wherein said polymerase chain reaction is a quantitative polymerase chain reaction.
- 3. The method according to claim 2, wherein said polymerase chain reaction is a reverse transcriptase polymerase chain reaction
- 4. The method according to claim 1, further comprising detecting the product of said polymerase chain reaction by optical detection.
- 5. The method according to claim 4, comprising detecting said product using a probe labeled with a detectable label.
- 6. The method according to claim 5, wherein said detectable label is a fluorescent dye.
- 7. The method according to claim 4, comprising detecting said product using a fluorescent nucleic acid-binding dye.
- 8. The method according to any of claim 1, wherein said polymerase chain reaction is carried out in the presence of an effective amount of at least two anti-foam reagents.
- 9. The method according to claim 1, wherein said anti-foam agent is selected from the group consisting of 1520-US, AF, FG-10, O-30, SE-15, and Antifoam B.

- 10. The method according to claim 8, wherein said at least two antifoam reagents are selected from the group consisting of 1520-US, AF, FG-10, O-30, SE-15, and Antifoam B.
 - 11. A composition for amplifying a target nucleic acid, comprising
 - (a) at least one primer molecule that hybridizes to the target nucleic acid;
 - (b) nucleotide triphosphates
 - (c) a thermostable DNA polymerase
 - (d) a detergent; and

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- (e) an effective amount of at least one anti-foam reagent that does not substantially inhibit the action of said thermostable DNA polymerase.
- 12. A composition according to claim 11, comprising at least two antifoam reagents.
- 13. A composition according to claim 11 wherein said anti-foam agent is selected from the group consisting of 1520-US, AF, FG-10, O-30, SE-15, and Antifoam B.
- 14. The composition according to claim 12, wherein said at least two anti-foam reagents are selected from the group consisting of 1520-US, AF, FG-10, O-30, SE-15, and Antifoam B.
- 15. The method according to claim 1 wherein said polymerase chain reaction is carried out in a sample chamber of a device comprising a plurality of said sample chambers.
- 16. The method according to claim 15, wherein each of a plurality of said sample chambers of said device contains reagents suitable for detecting a target nucleic acid.
- 17. The method according to claim 16, wherein a plurality of sample chambers of said device contains reagents suitable for detecting different target nucleic acids.

- 18. The method according to claim 17, further comprising detecting the amplified products in said sample chambers by optical detection.
- 19. The method according to claim 18, comprising detecting said amplified products using a probe labeled with a detectable label.
- 20. The method according to claim 19, wherein said detectable label is a fluorescent dye.
- 21. The method according to claim 18, comprising detecting said amplified products using a fluorescent nucleic acid-binding dye.